

CLAIMS

1. A light-projecting device for a view finder, comprising:

an ocular optical system that faces an emergent opening
5 of a hollow pentagonal mirror;

a superimpose-plate that is provided in an incident opening of said hollow pentagonal mirror, said superimpose-plate being put on a focusing glass, on which a subject image obtained through the photographing optical
10 system is formed, a mark, indicated in a picture plane of said view finder, being formed on said superimpose-plate; and

a light-projecting optical system that has a light-projecting plane for projecting an illumination light beam, which is to be radiated onto said mark, into said hollow
15 pentagonal mirror through said emergent opening, said light-projecting plane being located below the optical axis of said ocular optical system.

2. A light-projecting device according to claim 1, wherein said mark comprises a micro-prism formed on a surface of said
20 superimpose-plate.

3. A light-projecting device according to claim 1, wherein said light-projecting optical system comprises a light source radiating said illumination light beam, a light-projecting prism reflecting said illuminating light toward said emergent
25 opening, said light-projecting plane being an emergent plane

of said light-projecting prism.

4. A light-projecting device according to claim 3, wherein said light source is disposed close to an upper end of said emergent opening, and said light-projecting prism is disposed
5 below said light source.

5. A light-projecting device according to claim 3, wherein said light-projecting prism is disposed beside said ocular optical system.

6. A light-projecting device for a view finder,
10 comprising:

a hollow pentagonal mirror;

an ocular optical system that faces an emergent opening
of said hollow pentagonal mirror;

a focusing glass that is provided in an incident opening
15 of said hollow pentagonal mirror so that a subject image obtained through a photographing optical system is formed;

a superimpose-plate that is put on said focusing glass,
a mark, indicated in a picture plane of said view finder, being
formed on said superimpose-plate;

20 a light source that radiates an illumination light beam;
and

a light-projecting prism that reflects said
illumination light beam toward said emergent opening, said
light-projecting prism having a light-projecting plane, said
25 light-projecting plane being located below the optical axis

of said ocular optical system.

7. A light-projecting device for a view finder, comprising:

an ocular optical system that faces an emergent opening
5 of a hollow pentagonal mirror;

a superimpose-plate that is provided in an incident
opening of said hollow pentagonal mirror, said
superimpose-plate being put on a focusing glass, on which a
subject image obtained through the photographing optical
10 system is formed, a mark, indicated in a picture plane of said
view finder, being formed on said superimpose-plate, said
superimpose-plate being inclined so that an edge, close to
said photographing optical system, of said superimpose-plate
is lowered; and

15 a light-projecting optical system that has a
light-projecting plane for projecting an illumination light
beam, which is to be radiated onto said mark, into said hollow
pentagonal mirror through said emergent opening, said
light-projecting plane being located beside said ocular
20 optical system.

8. A light-projecting device according to claim 7, wherein
said superimpose-plate is more inclined than said focusing
glass.

9. A light-projecting device according to claim 8, wherein
25 said superimpose-plate is inclined by 1-3 degrees relative

to said focusing glass.

10. A light-projecting device according to claim 7, wherein said superimpose-plate comprises a plane-parallel plate, and an outer frame enclosing said plane-parallel plate, said
5 outer frame being mounted on a focus-adjusting washer that is provided between said superimpose-plate and said focusing glass.

11. A light-projecting device according to claim 7, wherein said mark comprises a micro-prism formed on a surface of said
10 superimpose-plate.

12. A light-projecting device according to claim 7, wherein said light-projecting optical system comprises a light source radiating said illumination light beam, a light-projecting prism reflecting said illuminating light toward said emergent
15 opening, said light-projecting plane being an emergent plane of said light-projecting prism.

13. A light-projecting device according to claim 12, wherein said light source is disposed close to an upper end of said emergent opening, and said light-projecting prism is
20 disposed below said light source.

14. A light-projecting device for a view finder, comprising:

a hollow pentagonal mirror;

an ocular optical system that faces an emergent opening

25 of said hollow pentagonal mirror;

a focusing glass that is provided in an incident opening of said hollow pentagonal mirror so that a subject image obtained through a photographing optical system is formed;

a superimpose-plate that is put on said focusing glass,
5 a mark, indicated in a picture plane of said view finder, being formed on said superimpose-plate, said superimpose-plate being inclined so that an edge, close to said photographing optical system, of said superimpose-plate is lowered;

a light source that radiates an illumination light beam;

10 and

a light-projecting prism that reflects said illumination light beam toward said emergent opening, said light-projecting prism having a light-projecting plane, said light-projecting plane being located beside said ocular
15 optical system.